

MATH 1100 COLLEGE ALGEBRA

Course Text: A Graphical Approach to College Algebra and Trigonometry 4th edition, by Hornsby, Lial, Rockswold. ISBN: 0-321-356689-6

Materials needed: Textbook, notebook (binder)

NOTE: A graphing calculator will be provided for you for class and test; it is strongly recommended that you purchase one for outside the classroom.

Prerequisite: Satisfactory score on placement test, successful completion of DVMA 0930, or permission of the department head.

Course Description: A study in linear equations and inequalities, linear applications, systems of linear equations, functions and graphs, higher – order polynomial functions, exponential and logarithmic functions.

Course Objective: To prepare students to take higher levels of mathematics by developing basic algebraic skills both analytical and graphical and problem solving techniques as well as enhancing the students' logical thinking process.

Method of Evaluations: Three 100 – point test and a *comprehensive* final worth 100 points will be given. Also all assignments that are turned in will be averaged together for another 100 points. (Total 500 points)

Grading Scale:

90 – 100 %	A
80 – 89 %	B
70 – 79%	C
60 – 69 %	D
<60%	F

Exiting MATH 1100: A course grade of *C* or better will allow the student to advance to the next math course. A grade of D or F will require the student to repeat the course.

Attendance Policy: Students are expected to attend every class. If you are more than 5 minutes late you are considered absent. For the semester students are allowed 11 absences for a class meeting 5 days a week, 5 absences for a class that meets twice a week; all absences go towards the total (excused or unexcused) . If you are dropped by the instructor at anytime you will receive an “F” in the course. Students must sign a roster in the back of the classroom in order to have a tardy changed into a “W”. Students leaving early need to clear it with the instructor before class; failure to do so will result in an absence.

Makeup Policy: Makeup test will be given only when absences are excused by the instructor. Students missing a test or exam shall submit a valid documented excuse immediately upon returning to class. Makeups will be given at the end of the semester. *It is the student's responsibility to makeup any class work or assignments given in his/her absence.*

Students with disabilities: FTCC complies with Section 504 and the Americans with Disabilities Act. Students with disabilities who seek accommodations must make their requests known by contacting the Disabilities Coordinator (Mr. Bilello in Student Services) at the beginning of each semester. If a disability is identified later in the semester, a non-retroactive accommodation plan will be developed.

Academic honesty: Plagiarism, cheating, and other forms of academic dishonesty are prohibited. In addition to other possible disciplinary sanctions, which may be imposed through the regular institutional procedures as a result of academic misconduct, your instructor will assign an "F" for the exercise or examination that evidences academic misconduct for the first offense and assign an "F" for the course for repeated offenses.

Classroom conduct:

- Drinking or eating in class is not permitted (The only exception is water in a container with a lid).
- The use of phones, beepers, earphones, etc. is not allowed in the classroom. If you have a cell phone or beeper, it **must be turned off** during class. DO NOT ANSWER a phone in the classroom. Most emergencies can go through the front office.
- Attend class regularly and on time. The instructor reserves the right to enforce the college's attendance policy.
- Bring required course materials to every class meeting.
- Submit assignments on time. Points will be deducted for assignments which are turned in late. When turning in assignments, pages must be properly labeled with section and page number and each problem must be numbered.

Course Transferability: General education courses that are listed on the Louisiana Board of Regents' *Statewide Student Transfer Guide and Articulation Matrix* are transferable to other public four-year universities and two-year colleges in Louisiana. This publication is available at the Board of Regents' website at www.regents.state.la.us. Courses taught by instructors holding a master's degree may be transferable. Students should check with the receiving institution concerning these courses.

Student Learning Outcomes

Upon successful completion of this course, the student will be able to:

- Determine whether the given information represents a function.
- Determine the domain and range of functions.
- Graph a linear function of the form $f(x) = mx + b$.
- Find the equation of a linear model given sufficient data about the model.
- Find the equation of the least squares regression line given data using a graphing calculator.
- Solve systems of two linear equations graphically, by substitution, and by elimination.
- Simplify, add, subtract, and multiply complex numbers
- Solve for the zeros of quadratic functions.
- Graph quadratic functions on the rectangular coordinate system.
- Find the vertex and equation of the axis of symmetry of a parabola.
- Identify the basic graphs of different types of functions.
- Performs operations and compositions of functions.
- Determine whether a functions is one-to-one and find its inverse function if it is one-to-one.
- Graph exponential functions on the rectangular coordinate system.
- Solve both type I and type II exponential equations.
- Graph logarithmic functions on the rectangular coordinate system.
- Solve logarithmic equations.
- Rewrite, simplify, and evaluate logarithms using the properties of logarithms and a graphing calculator.
- Solve logarithmic equations.

Blackboard

A LCTCS Blackboard account will be created for you if you don't already have one. To access this account you will need to use a computer that can access the internet. If you do not have internet access at home, you can use a computer in the school library, tutoring lab, or public library.

How to access your LCTCS Blackboard account:



First go to www.lefletcher.edu. Scroll down and click on the Blackboard icon at the bottom of the page. A new web page comes up after this, <http://lctcs.blackboard.com>. On the new web page click on the icon labeled "Login". This takes you to <http://lctcs.blackboard.com/webapps/login>. Here you will enter the user ID and password described below.

User ID: There are four parts to your user ID.

Part one: the lowercase letters le

Part two: the first letter of your first name

Part three: your last name

Part four: the last two digits of your social security number

Password: Initially your password is identical to your user ID.

It is quite possible that in your Blackboard account you will be enrolled in more than one class. This class is Intermediate Algebra. If you click on the course name, a new screen emerges with options on the left side. You will find these links very helpful:

- Announcements: Here you will find dates of upcoming tests or assignment due dates.
- Course Documents: Here you will find copies of most worksheets that have been distributed. When absent on the day a worksheet is distributed, this is where you will get your copy. Sometimes a solution key will be posted after the work is submitted so that you can correct your errors when the work is returned.
- Tools: This is where you can change your information and/or password. This is also where you can access your grades for this course.
- Syllabus: A copy of this syllabus is posted here.

This is a tentative schedule and is subject to change.

SECTION	PAGES	SUGGESESTED EXERCISES
		Buy Book and other supplies
1.1	8 – 10	# 25 – 39 odd, 40, 77 – 83 odd, 85 – 93 odd
1.2	20 – 22	# 1 – 57 odd 59 – 62 all, 65 – 71 odd, 75, 77
1.3	33 – 35	# 1 – 19 odd, 22, 23 – 33 odd, 35 – 38 all, 55, 57, 69 – 77 odd
1.4	45 – 50	# 1 – 49 odd, 63 – 71 odd, 75
1.5	62 – 65	# 1 – 15 odd, 18, 21 – 39 odd, 41 – 44 all, 45 – 59 odd, 83 – 91 odd, 95 – 101 odd
1.6	73 – 77	# 5 – 15 odd, 19 – 23 odd, 33, 35, 47, 59
7.1	475 – 477	# 7– 43 odd, 85
Review		
Test # 1		
2.1	100 – 101	# 1 – 10 all, 11 – 59 odd
2.6	156 – 160	# 1 – 6 all, 7 – 21 odd, 25, 27, 45 – 48 all, 65
3.1	179 – 180	# 1 – 9, 17 – 65 odd, 69 – 81 odd
3.2	190 – 191	# 1 – 4 all, 5 – 17 odd, 19 – 31 odd
3.3	206	# 13 – 65 odd
3.4	213 – 216	# 1 – 7 odd, 13, 17, 21
Review		
Test # 2		
5.1	346 – 348	# 1 – 11 odd, 17 – 23 odd, 37 – 41 odd, 55 – 65 odd, 85 – 89 odd
5.2	359 – 361	# 1 – 11 odd, 13 – 18 all, 25 – 37 odd, 49 – 63 odd
5.3	371 – 372	# 1 – 55 odd, 69 – 95 odd
5.4	381 – 382	# 9 – 15 odd, 53 – 60 all
5.5	391 – 392	# 5 – 49 odd, 55, 59 – 69 odd
5.6	402 – 407	# 1, 9, 15, 21, 39, 43, 53
Review		
Test # 3		
Final Review		
Final Review		
Final		